

In the title of the Invention:

A METHOD OF PRODUCING POLYURETHANE PADS
~~SIMILAR ARTICLES AND THE ARTICLE PRODUCED THEREWITH~~

In the specification:

Page 2, amend the paragraph in lines 3-4 as follows:

The present invention relates to a method of producing polyurethane pads and ~~similar articles and to an article~~ a pad produced thereby.

Page 2, amend the paragraph in lines 4-8 as follows:

It is known to produce ~~articles composed of layers of polyurethane, for example~~ polyurethane pads for grinding and polishing. Some solution for producing grinding and polishing pads are disclosed for example in U.S. patents no. 4,692,199; 5,257,478; 5,900,164. It is believed that the known solutions can be improved.

Page 3, amend the paragraph in lines 2-5 as follows:

Accordingly, it is an object of the present invention to provide a method of producing polyurethane pads and ~~similar articles and an article~~ a pad produced thereby, which is a further improvement of the existing methods and articles.

Page 3, amend the paragraph in lines 6-14 as follows:

In keeping with these objects and with others which will become apparent hereinafter, one feature of the present invention resides, briefly stated, in ~~a method of producing polyurethane, comprising the steps of providing at least one polyurethane layer having a first curing agent; providing a second polymer layer having a second curing agent; providing a connecting layer between the first and second layers with said first curing agent as in the first polyurethane layer; and subjected the layers to a thermal treatment so that the same first curing agent migrates from the connecting layer to the said first polyurethane layer and vice versa~~ a method of making a polyurethane pad, comprising the steps of preparing a mixture of components for producing a working layer including with a quantity of a curing agent sufficient for curing the working layer; removing a part of the quantity of the curing agent required for curing on the working layer; preparing a mixture of components for producing a polyurethane body of the paint, with a quantity of a curing agent sufficient for curing the body ; removing a part of the quantity of the curing agent from the mixture of the components for the body; preparing a mixture of components for a connection layer including a quantity of a curing agent which is at least equal to the part of the quantity of the curing agent removed from the mixture for the working layer plus the part of the quantity of the curing agent removed from the mixture for the body; and jointly thermally treating of the working layer and the

body with the connecting layer therebetween, so that the curing agent from the connecting layer migrates into the working layer and into the body to provide in the working layer and in the body the quantity of the curing agent required for curing of the working layer and the body correspondingly.

Cancel the paragraph bridging pages 3 and 4.

Page 4, amend the paragraph in lines 4-6 as follows:

~~When, for example~~ a polishing pad is produced in accordance with the present invention, its layers are reliably connected with one another to provide a solid composite article.

Page 5, amend the paragraph in lines 2-6 as follows:

Figure 1 is a view showing a grinding or polishing pad produced by a new method in accordance with the present invention and including a body, a connecting layer, and a working layer composed of polyurethane; and

~~Figure 2 is a view showing a multi-layered article produced in accordance with the present invention.~~

Page 6, amend the paragraph I lines 2-6 as follows:

A method of producing ~~an article composed of two main layers,~~
~~of which one layer is composed of a~~ polyurethane pad in accordance with the
present invention is shown in Figure 1. The pad here includes a body which is
identified with reference numeral 1, a working layer which is identified with
reference numeral 2, and a connecting layer which is identified with reference
numeral 3.

Amend the paragraph bridging pages 8 and 9 as follows:

In accordance with the present invention, the amount of curing
agent in the ~~layers 1 and 2~~body 1 and the working layer 2 is reduced for example
to 75-80% of conventionally used amounts. The same curing agent, for example
MOCA is introduced into the connecting layer 3 in the amount, by which the
amount of the curing agent is reduced in the ~~layers 1 and 2~~body 1 and the
working layer 2 to be connected. If the ~~layer~~body 1 is not composed of
polyurethane, the amount of its curing agent can be retained the same, while the
amount of MOCA in the ~~layer~~working layer 2 is reduced to 75-80%, and the
connecting layer 3 is provided with MOCA corresponding to the missing 25-
20%.

Page 9, amend the paragraph in lines 7-14 as follows:

After the ~~layers 1 and 2~~body 1 and the working layer 2 are formed of an initial material, they are placed over one another with interposition of the connecting layer and together introduced into mold for thermal treatment. During the thermal treatment the curing agent or MOCA migrates from the connecting layer 3 into ~~layers 1 and 2~~body 1 and the working layer 2 and vice versa if the ~~layers 1 and 2~~body 1 and the working layer 2 are composed of polyurethane. If the ~~layer~~body 1 is composed not of polyurethane but instead of ebonite, then MOCA migrates between the ~~layers~~working layer 2 and the connecting layer 3 and from the connecting layer 3 into the ~~layer~~body 1, while the curing agent of the ~~layer~~body 1 (for example sulfur) migrates into the connecting layer 3.

Please delete the paragraph bridging pages 9 and 10 in its entirety.